# GOVERNMENT OF INDIA
# STEEL
# LOK SABHA

STARRED QUESTION NO:300
ANSWERED ON:21.12.2004
EXPENDITURE ON R D WORKS ON STEEL
Barad Shri Jashubhai Dhanabhai

**Will the Minister of STEEL be pleased to state:**

(a) the investment made in public sector regarding Research and Development (R&D) works on steel during the last three years and the results thereof;

(b) whether the Government has taken any decision to promote more investments on R&D works for improvement in quality of steel, keeping in view of its quality and economic prices in the world;

(c) if so, the details thereof; and

(d) the present position of the ongoing R&D projects and the projects which are lying under consideration of the Government ?

## Answer

MINISTER OF CHEMICALS & FERTILIZERS AND MINISTER OF STEEL (SHRI RAM VILAS PASWAN)

(a) to (d) A statement is laid on the Table of the Lok Sabha.

STATEMENT REFERRED TO IN REPLY TO PARTS (A) TO (D) OF LOK SABHA STARRED QUESTION NO300 FOR 21ST DECEMBER, 2004 BY SHRI JASHUBHAI DHANABHAI BARAD REGARDING EXPENDITURE ON R&D WORKS ON STEEL

(a) Investment made in Research and Development in Public Sector Steel Plants, out of their own funds, during the last three years were as given below:

(Rs. in Crore)

| Name of Public Sector Steel Plant | 2001-02 | 2002-03 | 2003-04 |
|---|---|---|---|
| Steel Authority of India Limited (SAIL) | 49.85 | 54.82 | 71.90 |
| Rashtriya Ispat Nigam Limited (RINL) | 2.50 | 2.50 | 2.50 |
| TOTAL | 52.35 | 57.32 | 74.40 |

R&D efforts during the above period have resulted in significant improvement of the performance indices of steel plants.

(b) & (c) Yes, Sir. To supplement Research & Development (R&D) activities in the iron & steel sector, Government of India have decided to spend up to Rs. 150 crores per annum from the interest proceeds of Steel Development Fund (SDF). So far, 36 R&D projects have been approved. As on 30th November, 2004 Rs.78.37 crore has been disbursed from SDF.

(d) As on date, 13 Research & Development Projects with partial financial assistance from SDF are being pursued as given below:

Public Sector/Institutions

| Sl No. | Name of the project |
|---|---|
| 1 | Introduction of new mining methods & techniques for ground control to enable |

mining of rich manganese ore under `very poor` to `fair` ground condition: by National Institute of Rock Mechanics, Karnataka in association with Manganese Ore (India) Limited, Nagpur.

2 Maximization of blast furnace productivity with Indian iron ore: by National Metallurgical Laboratory, Jamshedpur, Tata Iron & Steel Company Ltd. and RDCIS, Steel Authority of India Ltd.

3 Mixing and mass transfer in steel making ladles stirred with dual porous plug: a physical & mathematical model investigation: by Deptt. of Materials & Metallurgical Engineering, Indian Institute of Technology, Kanpur-208016.

4 Development of process for advanced hot dip coated products: by RDCIS, SAIL.

5 Development of intelligent mill set up model for dynamic and adaptive control of plate mill: by RDCIS, SAIL, Ranchi.

6 Pilot Scale Smelting Studies on Magnetite Ores of Nagaland: by National Metallurgical Laboratory, Jamshedpur

7 Development & Characterization of Spot Welding techniques for Coated Steel Sheets: Jadavpur University, Kolkata.

8 Extension of the project proposal on Documentation and development of iron making processes used by Tribals of India: by National Metallurgical Laboratory, Jamshedpur

9 Development of value added refractory products from Indian Bauxite: by Central Glass and Ceramic Research Institute (CGCRI) Kolkata.

10 Modelling and Control of microstructure and mechanical properties during hot strip rolling: by Research & Development Center for Iron & Steel, Steel Authority of India Ltd., Ranchi, Indian Institute of Technology, Kanpur & Indian Institute of Science, Bangalore.

Private Sector:

SL.No. Name of the project

11 To study various tolerable Indian Non Coking Coal sources with the aim of maximizing the usage of domestic non coking coal in COREX Process: by Jindal Vijayanagar Steel Ltd.

12 Setting up of a mini sinter plant to utilize waste generated out of present pig iron plant: by Tata Metalliks Ltd, Kharagpur

13 Documentation of traditional iron smelting by Agaria Community: by Bapa Ray Production, New Delhi.

The above projects are at different stages of completion. Two proposals from private sector plants for financial assistance from SDF are under consideration of the Government.